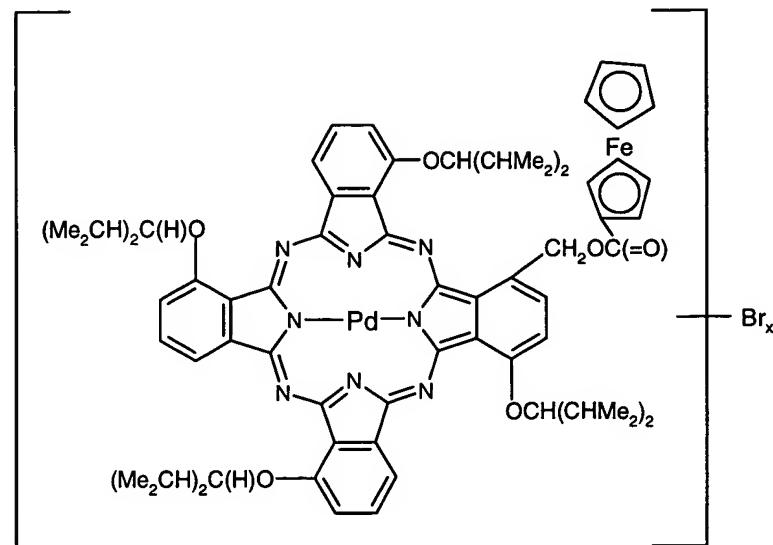


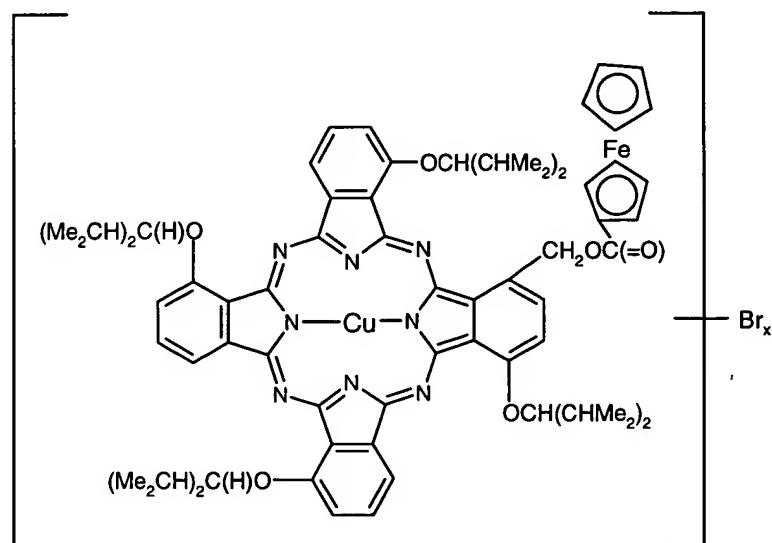
1-2. (cancelled).

3. (previously presented): A process according to claim 8 wherein the metallocenyl-phthalocyanine compound is represented by formula



where  $x = 2.6$  to  $3.0$ .

4. (previously presented): A process according to claim 8 wherein the metallocenyl-phthalocyanine compound is represented by formula

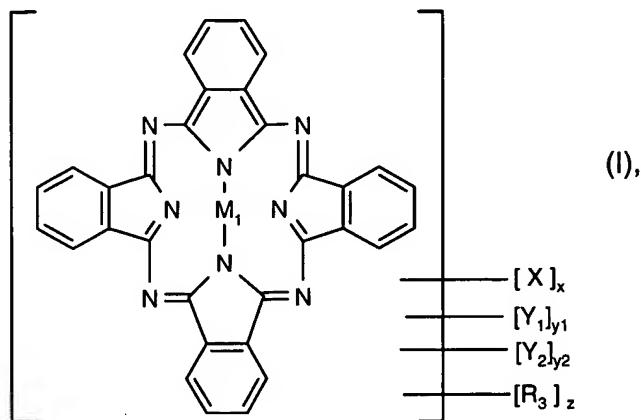


where  $x = 0$  to  $0.5$ .

5-7. (cancelled).

8. (currently amended): A process for the manufacture of an optical recording medium having at least one recording layer, comprising the steps of

a) incorporating a metallocenyl-phthalocyanine represented by formula I



wherein

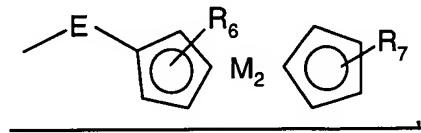
M<sub>1</sub> is a divalent metal, an oxometal group, halogenometal group or hydroxymetal group, or two hydrogen atoms,

X is halogen

Y<sub>1</sub> is -OR<sub>1</sub>, -OOC-R<sub>2</sub>, -NHR<sub>1</sub>, -N(R<sub>1</sub>)R<sub>2</sub>,

Y<sub>2</sub> is -SR<sub>1</sub>,

R<sub>3</sub> is



R<sub>6</sub> and R<sub>7</sub> are each independently of the other hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, amino-C<sub>1</sub>-C<sub>4</sub>alkyl, diarylphosphine, or phosphorus-containing C<sub>1</sub>-C<sub>4</sub>alkyl.

x may be a rational number from 0 to 8

y<sub>1</sub> and y<sub>2</sub> may be each independently of the other a rational number from 0 to 6

z may be a number from 1 to 4,

wherein (x + y<sub>1</sub> + y<sub>2</sub> + z) is ≤ 16,

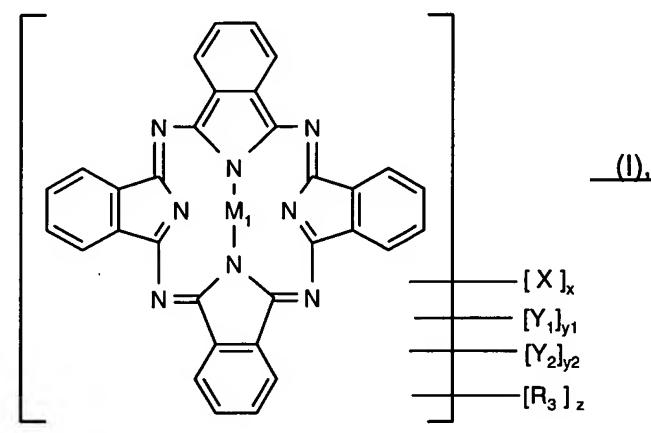
and wherein R<sub>1</sub> and R<sub>2</sub> may be each independently of the other

$C_1$ - $C_{20}$ alkyl which is unsubstituted or substituted by halogen, hydroxy,  $C_1$ - $C_{20}$ alkoxy,  $C_1$ - $C_{20}$ alkylamino or  $C_2$ - $C_{20}$ dialkylamino and which may be interrupted by  $-O-$ ,  $-S-$ ,  $-NH-$  or  $-NR_{10}-$ , wherein  $R_{10}$  may be  $C_1$ - $C_6$ alkyl,

$C_5$ - $C_{20}$ cycloalkyl,  $C_2$ - $C_{20}$ alkenyl,  $C_5$ - $C_{12}$ cycloalkenyl,  $C_2$ - $C_{20}$ alkynyl,  $C_6$ - $C_{18}$ aryl or  $C_7$ - $C_{18}$ aralkyl, and wherein one or two ligands may optionally be bound to the divalent metal atom, the oxometal group, halogenometal group or hydroxymetal group, or its metal complex of a divalent metal, oxometal, halogenometal or hydroxymetal, in which at least one of the four phenyl rings of the phthalocyanines contains, bound via a bridge unit  $E$ , at least one metallocene radical as a substituent, and  $E$  is being composed of a chain of at least two members selected from the group consisting of  $-CH_2-$ ,  $-C(=O)-$ ,  $-CH(C_1-C_4\text{alkyl})-$ ,  $-C(C_1-C_4\text{alkyl})_2-$ ,  $-NH-$ ,  $-S-$ ,  $-O-$  and  $-CH=CH-$  into said recording layer,

wherein the substrate is a homo- or copolymeric plastic.

9. (currently amended): An optical recording medium, which comprises a metallocenyl-phthalocyanine represented by formula I



wherein

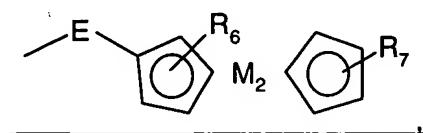
$M_1$  is a divalent metal, an oxometal group, halogenometal group or hydroxymetal group, or two hydrogen atoms,

$X$  is halogen

$Y_1$  is  $-OR_1$ ,  $-OOC-R_2$ ,  $-NHR_1$ ,  $-N(R_1)R_2$ ,

$Y_2$  is  $-SR_1$ ,

$R_3$  is



R<sub>6</sub> and R<sub>7</sub> are each independently of the other hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, amino-C<sub>1</sub>-C<sub>4</sub>alkyl, diarylphosphine, or phosphorus-containing C<sub>1</sub>-C<sub>4</sub>alkyl.

x may be a rational number from 0 to 8

y<sub>1</sub> and y<sub>2</sub> may be each independently of the other a rational number from 0 to 6

z may be a number from 1 to 4,

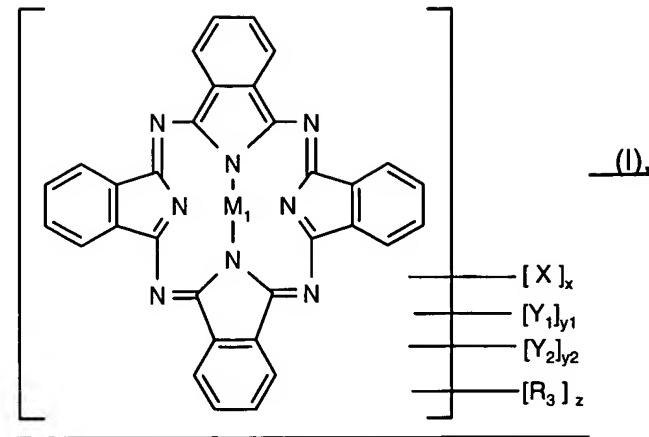
wherein (x + y<sub>1</sub> + y<sub>2</sub> + z) is ≤ 16,

and wherein R<sub>1</sub> and R<sub>2</sub> may be each independently of the other

C<sub>1</sub>-C<sub>20</sub>alkyl which is unsubstituted or substituted by halogen, hydroxy, C<sub>1</sub>-C<sub>20</sub>alkoxy, C<sub>1</sub>-C<sub>20</sub>alkylamino or C<sub>2</sub>-C<sub>20</sub>dialkylamino and which may be interrupted by -O-, -S-, -NH- or -NR<sub>10</sub>-, wherein R<sub>10</sub> may be C<sub>1</sub>-C<sub>6</sub>alkyl.

C<sub>5</sub>-C<sub>20</sub>cycloalkyl, C<sub>2</sub>-C<sub>20</sub>alkenyl, C<sub>5</sub>-C<sub>12</sub>cycloalkenyl, C<sub>2</sub>-C<sub>20</sub>alkynyl, C<sub>6</sub>-C<sub>18</sub>aryl or C<sub>7</sub>-C<sub>18</sub>aralkyl, and wherein one or two ligands may optionally be bound to the divalent metal atom, the oxometal group, halogenometal group or hydroxymetal group, or its metal complex of a divalent metal, exometal, halogenometal or hydroxymetal, in which at least one of the four phenyl rings of the phthalocyanine contains, bound via a bridge unit E, at least one metallocene radical as a substituent, and E is being composed of a chain of at least two members selected from the group consisting of -CH<sub>2</sub>-, -C(=O)-, -CH(C<sub>1</sub>-C<sub>4</sub>alkyl)-, -C(C<sub>1</sub>-C<sub>4</sub>alkyl)<sub>2</sub>-, -NH-, -S-, -O- and -CH=CH-, and a substrate which is a homo- or copolymeric plastic.

10. (previously presented): An optical recording medium, which consists essentially of a transparent substrate, a recording layer on that substrate, a reflection layer on the recording layer and, if desired, a final protective layer, the recording layer comprising a metallocenyl-phthalocyanine represented by formula I



wherein

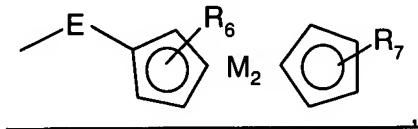
M<sub>1</sub> is a divalent metal, an oxometal group, halogenometal group or hydroxymetal group, or two hydrogen atoms,

X is halogen

Y<sub>1</sub> is  $-\text{OR}_1, -\text{OOC-R}_2, -\text{NHR}_1, -\text{N}(\text{R}_1)\text{R}_2,$

Y<sub>2</sub> is  $-\text{SR}_1,$

R<sub>3</sub> is



R<sub>6</sub> and R<sub>7</sub> are each independently of the other hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, amino-C<sub>1</sub>-C<sub>4</sub>alkyl, diarylphosphine, or phosphorus-containing C<sub>1</sub>-C<sub>4</sub>alkyl,

x may be a rational number from 0 to 8

y<sub>1</sub> and y<sub>2</sub> may be each independently of the other a rational number from 0 to 6

z may be a number from 1 to 4,

wherein (x + y<sub>1</sub> + y<sub>2</sub> + z) is  $\leq 16,$

and wherein R<sub>1</sub> and R<sub>2</sub> may be each independently of the other

C<sub>1</sub>-C<sub>20</sub>alkyl which is unsubstituted or substituted by halogen, hydroxy, C<sub>1</sub>-C<sub>20</sub>alkoxy, C<sub>1</sub>-C<sub>20</sub>alkylamino or C<sub>2</sub>-C<sub>20</sub>dialkylamino and which may be interrupted by -O-, -S-, -NH- or -NR<sub>10</sub>-, wherein R<sub>10</sub> may be C<sub>1</sub>-C<sub>6</sub>alkyl,

C<sub>5</sub>-C<sub>20</sub>cycloalkyl, C<sub>2</sub>-C<sub>20</sub>alkenyl, C<sub>5</sub>-C<sub>12</sub>cycloalkenyl, C<sub>2</sub>-C<sub>20</sub>alkynyl, C<sub>6</sub>-C<sub>18</sub>aryl or C<sub>7</sub>-C<sub>18</sub>aralkyl,

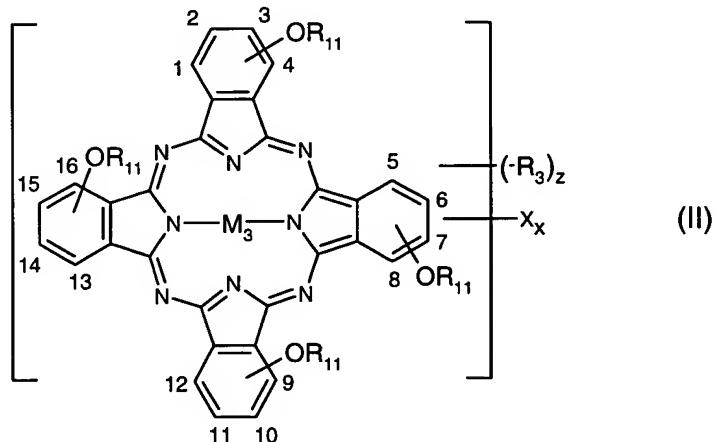
and wherein one or two ligands may optionally be bound to the divalent metal atom, the oxometal group, halogenometal group or hydroxymetal group, or its metal complex of a divalent metal, oxometal, halogenometal or hydroxymetal, in which at least one of the four phenyl rings of the phthalocyanines contains, bound via a bridge unit E, at least one metallocene radical as substituent, and E is being composed of a chain of at least two members selected from the group consisting of -CH<sub>2</sub>-, -C(=O)-, -CH(C<sub>1</sub>-C<sub>4</sub>alkyl)-, -C(C<sub>1</sub>-C<sub>4</sub>alkyl)<sub>2</sub>-, -NH-, -S-, -O- and -CH=CH-.

11. (previously presented): A process according to claim 8 wherein the optical recording medium is a DVD, a diffractive-optical element or medium for recording a hologram.

12. (previously presented): A process for the manufacture of an optical recording medium having at least one recording layer, comprising the steps of

a) incorporating a mixture, which comprises

(a) 60 to 95 mol % of a compound II

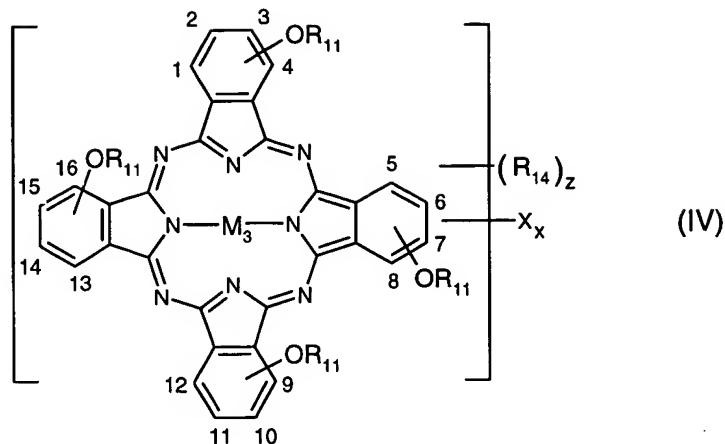


containing one radical R<sub>3</sub> (z = 1),

(b) 5 to 20 mol % of a compound II containing two radicals R<sub>3</sub> (z = 2),

and

(c) 0 to 25 mol % of a compound IV



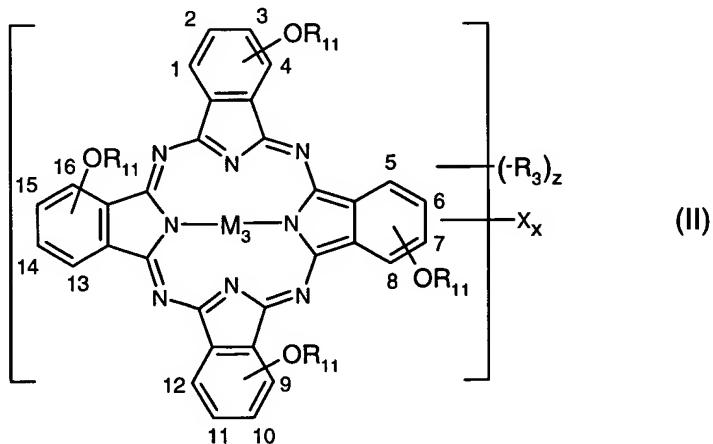
wherein -OR<sub>11</sub>, R<sub>3</sub> = R<sub>14</sub>, X and M<sub>3</sub> each have the same meaning in formulae II and IV and are as defined in claim 2, the mol-% amounts making up 100%, into said recording layer.

13. (currently amended): A process according to claim 12-2-wherein the optical recording medium is a DVD, a diffractive-optical element or medium for recording a hologram.

14. (previously presented): A process for the manufacture of optical recording medium having at least one recording layer, comprising the steps of

a) incorporating a mixture, which comprises

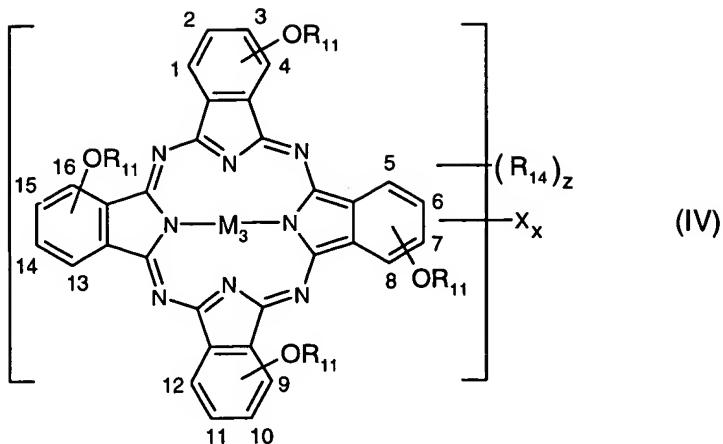
(a) 60 to 95 mol % of a compound II



containing one radical R<sub>3</sub> (z = 1),

wherein R<sub>11</sub> is C<sub>1</sub>-C<sub>12</sub>alkyl and M<sub>3</sub> is palladium or copper, and z is 1,

- (b) 5 to 20 mol % of a compound II containing two R<sub>3</sub> (z = 2), and
- (c) 0 to 25 mol % of a compound IV



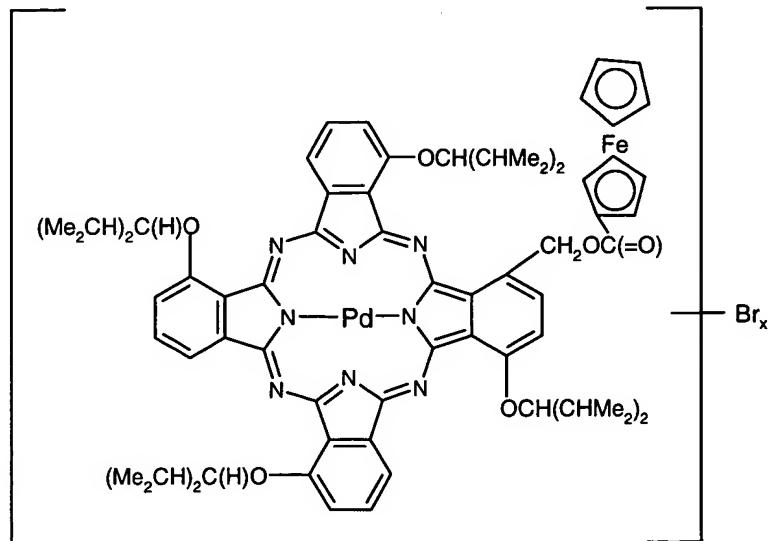
wherein  $R_{14}$  may be  $-CHO$ ,  $-CH_2OH$ ,  $-COOH$ ,  $-CH_2OC(O)-C_1-C_4$ alkyl or an acetal, and  $z$  may be 1 or 2,

wherein  $-OR_{11}$ ,  $R_3 = R_{14}$ ,  $X$  and  $M_3$  each have the same meanings in formulae II and IV and are as defined for claim 2, the mol-% amounts making up 100%, into said recording layer.

15. (previously presented): A process according to claim 14 wherein the optical recording medium is a DVD, a diffractive-optical element or medium for recording a hologram.

16. (cancelled).

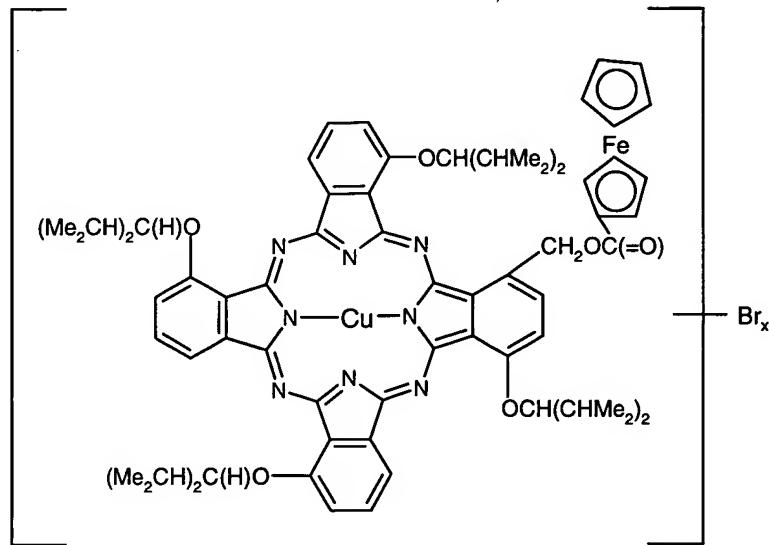
17. (previously presented): An optical recording medium according to claim 9 wherein the metallocenyl-phthalocyanine compound is represented by formula



where  $x = 2.6$  to  $3.0$ .

18. (previously presented): An optical recording medium according to claim 17 wherein the optical recording medium is a DVD, a diffractive-optical element or medium for recording a hologram.

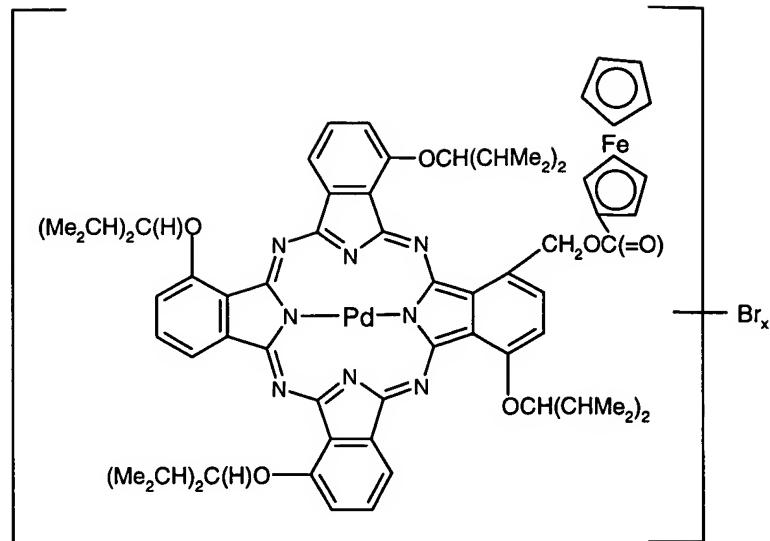
19. (previously presented): An optical recording medium according to claim 9 wherein the metallocenyl-phthalocyanine compound is represented by formula



where  $x = 0$  to  $0.5$ .

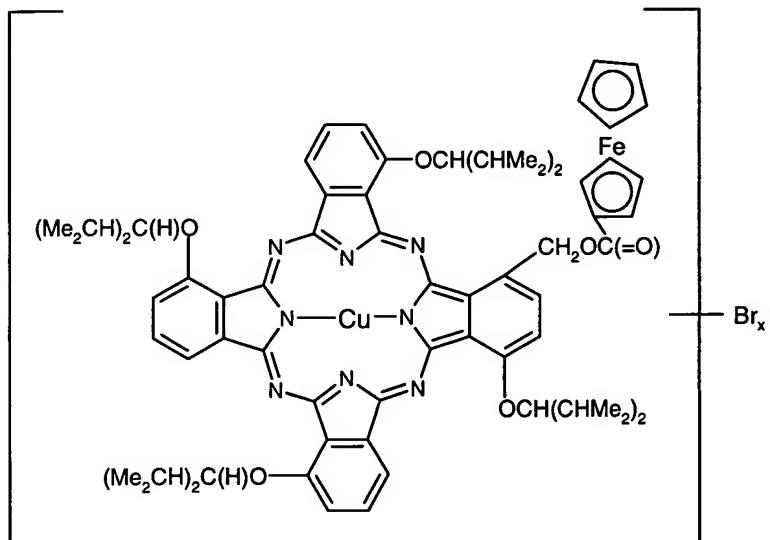
20. (cancelled).

21. (currently amended): An optical recording medium according to claim 10 wherein the metallocenyl-phthalocyanine compound is represented by formula



where  $x = 2.6$  to  $3.0$ .

22. (previously presented): An optical recording medium according to claim 10 wherein the metallocenyl-phthalocyanine compound is represented by formula



where  $x = 0$  to  $0.5$ .

23. (previously presented): An optical recording medium according to claim 22 wherein the optical recording medium is a DVD, a diffractive-optical element or medium for recording a hologram.